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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/791,634	03/02/2004	Yasunori Azuma	450100-04961	3082

7590                  10/23/2006

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SAVLA, ARPAN P

[REDACTED] ART UNIT

[REDACTED] PAPER NUMBER

2185

DATE MAILED: 10/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/791,634	AZUMA, YASUNORI	
	Examiner Arpan P. Savla	Art Unit 2185	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 07 August 2006.
- 2a) This action is FINAL.                  2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-3 and 5-7 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-3 and 5-7 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____.   | 6) <input type="checkbox"/> Other: _____.                         |

## DETAILED ACTION

### Response to Amendment

This Office action is in response to Applicant's communication filed August 7, 2006 in response to the Office action dated April 5, 2006. Claims 1 and 5 have been amended. Claims 4 and 8 have been canceled. Claims 1-3 and 5-7 are pending in this application.

### OBJECTIONS

#### Specification

1. In view of Applicant's amendment, the objections to the specification have been withdrawn.

#### Claims

2. In view of Applicant's amendment, the objections to claims 4 and 8 have been withdrawn.

### REJECTIONS NOT BASED ON PRIOR ART

#### Claim Rejections - 35 USC § 112

3. In view of Applicant's amendment, the 112, 4<sup>th</sup> paragraph rejections to claims 4 and 8 have been withdrawn.
4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. **Claims 1-3 and 5-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.**

6. **As per claim 1,** the claim positively recites that “the drives are assigned respective node IDs as first addresses and respective port IDs that represent mounted order numbers as second addresses.” However, the newly added negative limitation recites a situation in which “each of the drives are not assigned the first address and the second address.” The negative limitation directly contradicts the earlier positive recitation that the drives are assigned the first and second addresses and therefore renders the scope of the claim indefinite.

7. **As per claim 5,** the claim positively recites “assigning respective node IDs as first addresses and respective port IDs that represent mounted order numbers as second addresses to a plurality of drives.” However, the newly added negative limitation recites a situation in which “each of the drives are not assigned the first address and the second address.” The negative limitation directly contradicts the earlier positive recitation of assigning respective first and second addresses to a plurality of drives and therefore renders the scope of the claim indefinite.

#### **REJECTIONS BASED ON PRIOR ART**

##### **Claim Rejections - 35 USC § 103**

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 1-3 and 5-7 are rejected under 35 U.S.C. 103(a) as being obvious over Goodman et al. (U.S. Patent 6,757,694) in view of Allen et al. (U.S. Patent Application Publication 2002/0161852) and in further view of Golasky et al. (U.S. Patent 6,880,101).

10. As per claim 1, Goodman discloses a tape library apparatus (col. 2, lines 5-7; Fig. 1) to which a node ID is assigned (col. 2, lines 46-48; Figs. 1 and 5, element 47) and that is connected to a host computer (col. 2, line 33; Fig. 3, element 28), comprising:

a plurality of drives for recording and reproducing data to and from respective large capacity tape recording mediums, the drives having respective interfaces being capable of transferring large capacity data to the host computer (col. 2, lines 7-10, 25-28, and 32-35; Fig. 1, elements 12 and 14; Fig. 3, elements 28 and 29). *It should be noted that “reading/read from” is analogous to “reproducing”, “data storage media” is analogous “tape recording mediums”, and “host system” is analogous to “host computer.”*

the drives are assigned respective port IDs that represent mounted order numbers as second addresses (col. 3, lines 43-44; col. 4, lines 38-39) and the interfaces are activated (col. 2, 25-28 and 32-35; Fig. 3, element 29). *It should be noted that “drive position” is analogous to “mounted order number.” It should also be noted*

*that it is inherently required the interface be activated in order for the host system to read and write data to and from the tape drives.*

Goodman does not expressly disclose the drives are assigned respective node IDs as first addresses;

and wherein an address previously assigned to the drive upon production is used when (i) each of the drives are not assigned the first address and the second address and (ii) a command causing the drive to be assigned the first address and the second address is not received from the host computer.

Allen discloses the drives are assigned respective node IDs as first addresses and respective port IDs as second addresses (paragraph 0047, lines 7-8; Fig. 2, elements 255, 260, and 265). *It should be noted that “node\_name” is analogous to “node ID” and “port\_name” is analogous to “port ID.”*

Goodman and Allen are analogous art because they are from the same field of endeavor, that being Fibre Channel systems.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to implement Allen’s World Wide Name (WWN), which contains both a node ID and port ID, within Goodman’s WWN, which is dependent on drive position.

The motivation for doing so would have been to gain the benefit of uniquely identifying and tracking devices connected to a Fibre Channel network through a SCSI bridge (Allen, paragraph 0027).

The combination of Goodman/Allen does not expressly disclose wherein an address previously assigned to the drive upon production is used when (i) each of the

Art Unit: 2185

drives are not assigned the first address and the second address and (ii) a command causing the drive to be assigned the first address and the second address is not received from the host computer.

Golasky discloses an address previously assigned to the drive upon production is used when (i) each of the drives are not assigned the first address and the second address and (ii) a command causing the drive to be assigned the first address and the second address is not received from the host computer (col. 5, lines 28-33). *It should be noted that "WWN" is analogous to "address that has been assigned to the drive upon production."*

The combination of Goodman/Allen and Golasky are analogous art because they are from the same field of endeavor, that being Fibre Channel systems.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to implement Golasky's WWN within Goodman/Allen's Fibre Channel system.

The motivation for doing so would have been to assign Fibre Channel devices with unique global IDs that identify the device's vendor and serial number, thus providing SAN management which includes compartmentalization, authorization, and securitization.

Therefore, it would have been obvious to combine Goodman, Allen, and Golasky for the benefit of obtaining the invention as specified in claim 1.

11. As per claim 2, the combination of Goodman/Allen/Golasky discloses when a new drive is mounted on the tape drive apparatus, the newly mounted drive is assigned

the first address and the second address in accordance with a command received from the host computer (Goodman, col. 4, lines 39-42; col. 2, lines 28-32). *It should be noted that WWN assigned to the new drive is taken to be the combination of Goodman's WWN and Allen's WWN as established in the 35 USC 103 rejection of claim 1 above.*

12. **As per claim 3,** the combination of Goodman/Allen/Golasky discloses when the mounted position of each of the drives is changed, the moved drive is assigned the first address and the second address in accordance with a command received from the host computer (Goodman, col. 4, line 60 – col. 5, line 6; col. 2, lines 28-32). *It should be noted that when a drive is moved its position in the library will change. However, since the WWN is based in part on drive position, the moved drive will be assigned a new WWN.*

13. **As per claim 5,** Goodman discloses a method of controlling a tape library apparatus to which a node ID is assigned (col. 2, lines 46-48; Figs. 1 and 5, element 47) and that is connected to a host computer (col. 2, line 33; Fig. 3, element 28), comprising the steps of:

assigning respective port IDs that represent mounted order numbers as second addresses to a plurality of drives (col. 3, lines 43-44; col. 4, lines 38-39) for recording and reproducing data to and from respective large capacity tape recording mediums (col. 2, lines 7-10, 25-28, and 32-35; Fig. 1, elements 12 and 14; Fig. 3, elements 28 and 29), the drives having respective interfaces being capable of transferring large capacity data to the host computer (col. 2, 25-28; Fig. 3, element 29),

and activating the interfaces (col. 2, 25-28 and 32-35; Fig. 3, element 29).

*Please see citation notes for claim 1 above.*

Goodman does not expressly disclose assigning respective node IDs as first addresses to a plurality of drives;

and using an address previously assigned to the drive up production when each of the drives are not assigned the first address and the second address and a command causing the drive to be assigned the first address and the second address is not received from the host computer.

Allen discloses assigning respective node IDs as first addresses and respective port IDs as second addresses to a plurality of drives (paragraph 0047, lines 7-8; Fig. 2, elements 255, 260, and 265). *Please see the citation notes for claim 1 above.*

At the time of the invention it would have been obvious to a person of ordinary skill in the art to implement Allen's World Wide Name (WWN), which contains both a node ID and port ID, within Goodman's WWN, which is dependent on drive position.

The motivation for doing so would have been to gain the benefit of uniquely identifying and tracking devices connected to a Fibre Channel network through a SCSI bridge (Allen, paragraph 0027).

The combination of Goodman/Allen does not expressly disclose using an address previously assigned to the drive up production when each of the drives are not assigned the first address and the second address and a command causing the drive to be assigned the first address and the second address is not received from the host computer.

Golasky discloses using an address previously assigned to the drive up production when each of the drives are not assigned the first address and the second address and a command causing the drive to be assigned the first address and the second address is not received from the host computer (col. 5, lines 28-33). *Please see the citation note for claim 1 above.*

The combination of Goodman/Allen and Golasky are analogous art because they are from the same field of endeavor, that being Fibre Channel systems.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to implement Golasky's WWN within Goodman/Allen's Fibre Channel system.

The motivation for doing so would have been to assign Fibre Channel devices with unique global IDs that identify the device's vendor and serial number, thus providing SAN management which includes compartmentalization, authorization, and securitization.

Therefore, it would have been obvious to combine Goodman, Allen, and Golasky for the benefit of obtaining the invention as specified in claim 5.

14. As per claim 6, the combination of Goodman/Allen/Golasky discloses when a new drive is mounted on the tape drive apparatus, assigning the newly mounted drive the first address and the second address in accordance with a command received from the host computer (Goodman, col. 4, lines 39-42; col. 2, lines 28-32). *Please see the citation note for claim 2 above.*

15. As per claim 7, the combination of Goodman/Allen/Golasky discloses when the mounted position of each of the drives is changed, assigning the moved drive the first address and the second address in accordance with a command received from the host computer (Goodman, col. 4, line 60 – col. 5, line 6; col. 2, lines 28-32). *Please see the citation note for claim 3 above.*

**Response to Arguments**

16. Applicant's arguments filed August 7, 2006 with respect to claims 1-3 and 5-7 have been fully considered but they are not persuasive.

17. With respect to Applicant's argument in the second full paragraph of page 9 of the communication filed August 7, 2006 which states "Further, Golasky does not suggest the drive replacement without shutting down or re-booting of the library system" the Examiner would like to note that the features upon which Applicant relies (i.e., drive replacement without shutting down or re-booting of the library system) are not recited in the rejected claims and therefore need not be taught by any of the references.

18. With respect to Applicant's argument in the last full paragraph of the communication filed August 7, 2006 which states "Specifically, Applicant submits that there is no teaching or suggestion of tape library apparatus to which a node ID is assigned and that is connected to a host computer wherein an address previously assigned to the drive upon production is used when each of the drives are not assigned the first address and the second address and a command causing the drive to be assigned the first address and the second address is not received from the host

computer" the Examiner respectfully disagrees and directs Applicant specifically to the rejection of claims 1 and 5 above. The Examiner would also like to direct Applicant to the 112, 2<sup>nd</sup> paragraph rejections of claims 1-3 and 5-7 above.

**Conclusion**

**STATUS OF CLAIMS IN THE APPLICATION**

The following is a summary of the treatment and status of all claims in the application as recommended by MPEP 707.70(i):

**CLAIMS REJECTED IN THE APPLICATION**

Per the instant office action, claims 1-3 and 5-7 have received a second action on the merits and are subject of a second action final.

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arpan P. Savla whose telephone number is (571) 272-1077. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sanjiv Shah can be reached on (571) 272-4098. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
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October 3, 2006

  
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